

FIG. 1

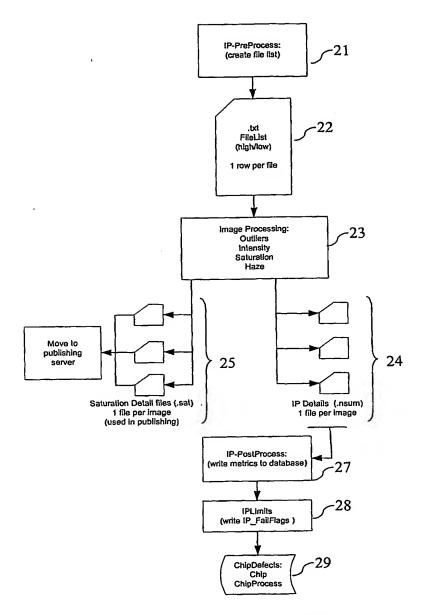


Image Processing Workflow

FIG. 2

35	31		34				32		3	36	3	3				
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- Selected Experiments					17.7		_			Fixes		į ·	• • •	٠.		1
Pass Fal	FallPlan	acon	QC Uses	Cor	ment /	<u> </u>			loods Mask	Not Fa			. 1.	. in 1		٠.
P/F Clear		<u> </u>		<u> </u>					No Mark					~ T	- ·	2.4
		Process	Pan/Fail	Réason	IP Fed Flags	IP Fail	ChipTys		All Avoid		B-Actin	triton	Intensity Oligo#2		Spikeln R-Squar	<u>د</u>
. Expt Name	Scan Date				0000000 00000100	Description				1.000	0.792		2309	3792	0.986	-:∤
1_08132MV274A21	2002-01-17 1		Dess		0010000 00000100	Gird Intensi	v: MG_U7	4Bv		1,030	0.751		3716	4157	0.983	- [
2 08132MV274821 3 08132MV274C21	2002-01-17 1° 2002-01-17 1°.		fail	Dim Locally	.1011000 01001000	and, Uneve	n.MG_U7	4Cv		10, 0.804	0.774	66	1751	3613	0.978 0.992	
3 08132MV274C21 4 08163MV274A11			D253		1000000 00000000	Grid, Uneve	n.KG_U7	4Av		73; 0.731	0.374		9105°	2825 3463	0.993	٠,
	2002-01-17 1		2250		0000000 00000000					35 0.710	0.369: 0.400	218	9887!	1927	0.992	
6 08163MV274C11	2002-01-17 1		pass		,0000000 00000000	3.	MG_U7			10: 0717			3547	3471	0.984	1
7 08166MV274A21	2002-01-17 1		pass		0000000 00000100) nsity. Uneve	n.MG_U7	4Av		81: 0.729 57: 0.709		98	3155	4007	0.981	•
8 08166MV274821	2002-01-17 1	Archive .	pass		0001000 00000000					57: 0.709 491 0.774			3663:	3165	0.984	-
9 081664V274C21	2002-01-17 1	Archive	pass		0000000 00001100	Disid, Intensi	MU_U/	400		53 1.020			2498	3118	0.011	
	2002 01-17 1	: Archive	pass		0000000 0010010		MG_U7	400		79 0.992			3030	4087	0.009	:-
11_08177MV274B11			Pass		70000000 00100000					40' 0.982			37771	2742	0.002	
12 08177MV274C11			list,	Bright Overall	0010000 0010010	Outro, Interior	WING U	7404		61 0 961			4456)	2814	0.015	
13 08184MV274C11			bats		0000000 0000000					98' 0.704		. 204	5591	3474	0.990	
14 08194MV274A11			bass		,0000000 00000000,					37. 0.70	0.554	166	4314	4103	0.991	
15 08194MV274811			patt		0000000 0000100				335	25 0.693	0.605	: 223		3206	0.988	-
16_08194MV274C11			pers		0000000 0000000				258	21' 0.926	0.389		5069	2702.		
17_08195MV274C21			Dess		000000 0000010				447 1	15: 0.72	0.602	156			0.989	
18 08197MV274A11			Dess		0000000 0000000				369	55 079	0.586			3743		
19 06197MVZ74811			pats fail	Daints Overall	0000000 0000010	Dasity, Uney	en.MG_U	74Cv	566	76 0.73				2839	0.985	
20 08197MV274C11			Dets	DEGROTOR	0000100 0000000	O Grid. Unev	en MG U	74Av	367	90 0 59				3401	0 989	
21_08138MV274A11			Data		0000000 0100000	10 and Unev	en MG U	74Bv	310	34 0 65					0 990	
22 08198MV274811			pass		0000000 0000010	Onsity, Unev	en MG_U	74Cv	402"	36 070						
23 08198MV274C11 24 08863MV274C31			(a)	Hazo	0000000 0000000	o Grid, Unav	en MG_Ù	74Cv	259	10 0.53						
			[all	Reight Overal	0000000 0000010	Onsity, Unev	en MG_U	74Av		224 0.69						
			parr		0001000 0000010	10 naily, Unev	en MG_U	74Bv		135 080						
			Data		0000010 0100010	00 and, Inten	aky MG_U	74Cv	372	49 077						
			(all	High Backgr	ol0000110 0011110	00 Saturato, S	ca MG_U	174Av	1766	2 -204						
			fail	Dim Overall	0000010 0000010	30 rsity, Unov	ren MG_U	174Av	91	0 0.00						
29 09250MV274A11 30 09250MV274B11			lad	Dan Overall	0000010 0000010				72	1 2.99						
31 09250MV274C11			led	Den Overall	1000000 0000000		ind MG_U	74Cv	120	1 0.19						
32 09270MV274A21			lai	Dan Locally	0000000 000000		MG_U			103 0.36						
33 09270MV274B21			pass		0000000 0000000		MG_U		333	66 040						
34 09270MV274C21			päss		0000000 000011		ren MG_U	174CV	439	52 0.40 177 0.00						
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4 NG300207374A31									$\neg \neg$	1	34 of 609		arod03/	ims AlOZ		
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an Date: < 01/14/2	102 > End Delor (01/21/2002	☐ History	□ Needs M			
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art Date: (01/21/2	002 > End Datex . <	01/21/2002	C High C Low G.	Both No			
i. Experiment Name co			Probe Array:	[Fal Reason:			
Lot Number		Pass/Fait	HG U95AV2	-none>			
	[Problem		☐ HG_U358	Bright Locally			
Process	• 1	□ <none:< td=""><td>" □ HG_U95C</td><td>Cacked</td><td><u> </u></td><td></td><td>. '</td></none:<>	" □ HG_U95C	Cacked	<u> </u>		. '
Image Process	DAT ble not found after scan	Project	C3 HU 132E	Crop Crole			·, ,
Vrual OC	☐ CEL Be not found after scan ☐ DAT Be created without 08 ents		MG_U74A	Dan Locally	9 .		
Masi. Validata CHP	CHP life is not faund	—; □0.33	I MG_U74B	☐ Haze			-
Publish	CEL file has been modified or exc		" 1 □ MG_U746V2 . 1 □ MG_U74C	Haze Band High Backgroun	sd .		
] Archive] Arieljuit	Analyzed end rout vr. and OC	# } □ 01.25 	I+I HIG U74CV2	Incorrect Probe			•
nage Processing Para			Harden M.				: •
naga Flocestally Fala	No Metrics. I No P			Hitima Pass Fai	Both		,,
IP Test Or	Low Limit Hillimit Pass	Feil Both IP Test		Hi Limà Pass Fai	G	7 1 1 1 1 1 1	•
C. Any			Outler Edge	J- % 6	e		
Avg Intensity (All	·		m 25% Edge	- C C	· 6		
Saturation Count		C C Tien:	25% Edge	\equiv : :	6		
Spikein Requere	d C		25% Edge	 			
Vert 10% peak/n		C C T Top	75% Edge		e "		
Avg OligoB2 Inte			75% Edge		<u>و</u> .		
L' Soikein Intercep	⁽⁸⁾		75% Edge		6		:
Fi Spikein Slope			25% Max/Min 25% Max/Min	├	6		
Megative PM Mi	4		752 Max/Min		6		
Vert Outlier Var	├	C & T Vert	75% Max/Min				
F Horiz Outlier Ver		C C T Imag	po 5% Intensity	.⊢— ∑ ≿	6	•	
			Gapan	 ; ;	6	·" .	
Boto Outlier Edg	b						

FIG. 4

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	Site	Chip	ChipType	Tissue Type	IP Fail Countil	P Fall Description	Intensity All		lmage 5%
	A		RG U34A	LIVER, NOS	2/	All, Artifacts, Uneven	391		72
	Ā		RG_U34A	LIVER, NOS	3/	All, Artifacts, Uneven	463		67
	Ā		RG U34A	LIVER, NOS	2/	All, Artifacts, Uneven	529		72
	À		RG U34A	LIVER, NOS	1/	All	365		
	Ā		RG U34A	LIVER, NOS	1	All	556		81
	Ä		RG U34A	LIVER, NOS	1/	All	469		62
	Ā		RG U34A	LIVER, NOS	2/	All, Artifacts, Uneven	469		74
	Ā		RG U34A	LIVER, NOS	2	All, Artifacts, Uneven	551		
	Ā		RG U34A	LIVER, NOS	2	All, Artifacts, Uneven	369		
	A		RG U34A	LIVER, NOS	2	All, Artifacts, Uneven	453		
	A		RG U34A	LIVER, NOS	1	All	337		
	Ā	12	RG U34A	LIVER, NOS		All, Artifacts, Uneven	362		
402	A	13	RG U34A	LIVER, NOS	1	Ali	333		
	A	14	RG U34A	LIVER, NOS	5	All, Artifacts, Grid, Uneven	66		
	À	_	RG_U34A	LIVER, NOS	2	All, Artifacts, Uneven	32		
	В	1	RG U34A	LIVER, NOS	0		31:		
	B		RG U34A	LIVER, NOS	0		29		
	В		RG U34A	LIVER, NOS	0		31		
	В		RG U34A	LIVER, NOS	0		30		
	В		RG U34A	LIVER, NOS	2	All, Haze Band	29		
	В		RG U34A	LIVER, NOS	0		30		
	B		RG U34A	LIVER, NOS	2	Artifacts, Uneven	41		
403	В		BRG U34A	LIVER, NOS		Artifacts, Uneven	37		
402	В		PRG U34A	LIVER, NOS	11	Artifacts, Haze Band, Intensity, Uneven	n 129		
_	В		ORG U34A	LIVER, NOS	2	All, Artifacts, Uneven	50		
	В		IRG U34A	LIVER, NOS		Ali			
	В		2RG U34A	LIVER, NOS	2	Artifacts, Uneven	39		
	В		3 RG_U34A	LIVER, NOS	11	Artifacts, Uneven	41		
	В		4 RG_U34A	LIVER, NOS			25		
	В		5 RG U34A	LIVER, NOS		All	20	3.01	4) 09)

FIG. 4A

PCT/US2003/024160

					Intensity OligoB2				Spikeln Intercept
46327	118		0.685	156	11733	2619	0	1.095	3.597
46522	153	0.847	0.721	238	10182	2690	0	1.105	4.146
45037	194	0.942	0.804	324	10683		0	1.075	4.242
47464	107	0.95	0.729	188	11770		0	1.086	
46077	182	0.829	0.741	271	10916		0		4.23
45626	164	0.897	0.684	427	11569		2	1.073	4.934
45838		0.889	0.792	298			0		3.88
44793	195	0.873	0.684	197	10089				4.244
45615		0.965	0.626	286					5.043
44523		0.953	0.734	243					
47193	107	1.016	0.687	214					
47243	101	0.909	0.699	188					
46881	105	0.904	0.75	187	10477		<u> </u>		
44376	270	0.935	0.75	331	11284				
47765	85	0.944	0.7	178	11579	2574			
46492	110	0.866	0.692	61	2906				
47925		0.901	0.711	64	2652				
47385		0.852	0.695	70	3113				
46434		0.862	0.689	57	233				
47087		0.88	0.723	65	2629				
4598		0.861	0.72	73					
4766		0.854	0.747	7 7			'	1.06	
4753		1 0.84	0.740	6 8			4	1.05	
5152	260	6 1.012	0.58	1 10				1 1.35	
4673	3 174	4 0.90	0.73					1.09	
4690		0.89	7 0.68	B 5			`	0 1.1	
4667	0 12	8 0.81	3 0.71				<u> </u>	0 1.07	
4750	4 11	8 0.86	0.65					0 1.07	
4668		4 0.83	7 0.67	8 7				1 1.1	
4904		2 0.68	1 0.69	3 4	8 333	6 240	41	0 1.04	6 3.89

Spikein		Vert Outlier	Horiz Outlier	Top Outlier	Bottom Outlier Edge Ratio	Left Outlier Edge Ratio	Right Outlier Edge Ratio		25% Bottom Edge Ratio	25% Left Edge Ratio
Slope			Var	- 9		0.801	0.946	1,182		1
	.653	22.646		0.836	0.913	1.079			0.95	1.022
	0.64	29.924	17.055		0.897	1.139				
	.707	24.722			0.917 0.824				0.981	1.046
).497	28.449							0.956	
	0.699	28.735			0.86					1.025
	0.666	30.882	17.744		0.908					
	0.81	16.837	19.078		0.963			1,223		
	0.716		23.347							
	0.424	29.957	15.748							
	0.779									
	0.501	24.843								
	0.851	24.225							·	
	0.807	24.343			0.78					
	0.823	25.688					4		+	
	0.641	23.967	14.159	0.858						
	0.941	24.777	22.40	0.802						
	0:93	21.79	17.20	0.83	0.87					
	0.91	23.558	16.51	0.76						
	0.93	23.14	12.45	0.779						
	0.889	18.96	17.12	0.83	0.99					
	0.932	25.84	21.03	3 0.78	6 0.84					
	0.92	19.92	7 17.09	0.69	0.91					
	0.863	25.01	8 18.47	6 0.82	0.92					
	0.764		9.22	6 0.94	3 1.0					
	0.957		2 18.24	7 0.88						
	0.915		1 12.33	3 0.81	3 0.8					
	0.899		7 18.79	8 0.82	8 0.86					
	0.834			7 0.87	4 0.9					
	0.88		2 17.23	8 0.74	6 0.89					
	0.9		6 10.04	3 0.93	5 0.93	5 1.14	1 1.02	2 1.05	89.0	8 1.0

FIG. 4C

		75% Bottom						Vert 75% Max/Min	Affy Outliers
								2.554	28
1.082	1.494	0.888	0.981	1.16		1.475			18
1.108	1.531	0.904	1.019	1.25	1.195	1.535	1.645	2.69	
1.055	1.541	0.855	1.185	0.967	1.146		1.365	2.802	10
1.084	1.374	0.944	1.042	1.185		1.375	1.522	2.287	46
1.057	1.413	0.9	1.112	1.093					
1.078	1.441	0.875	1.078			1.428	1.526		45
1.091	1.486	0.93	0.999		1.179		1.639	2.651	18
1,102	1.613	0.909	1.088	1.201	1,192		1.583	3.077	40
1.128	1.309	1.043	1.051	1.071	1.214				63
1.02	1.556	0.895	1.105	1.099					
1.108	1.556	0.884	1.031	1.174	1,187	1.359		2.607	
1.115	1.476	0.895	0.963	1.136		1.373			118
1,068	1,402	0.929	1.034	1.118	1.122				
1.018	1.828	0.863	1.276	0.902	1.211	1.69			
1.079	1.612	0.783	1.09	1.139	1.146	1.456	1.453	2.711	
1.01	1,41	0.941	0.981	1.063	1.176	1.363			
1,003		0.961	1.012	1.058	1.111	1.308	1.328		
1.03		0.961	1.057	1.034	1.135	1.385	1.364	2.52	
0.981		0.95	1.049	1.001	1.109	1.378	1.316		
1.002			1.169	1.017	1.115	1.445	1.336		
1.024			1.035	1.125	1.118	1.42	1.447	2.554	
1.015			0.881	1.0	1.237	1,419	1.539		
0.928			0.922	0.86	1.188	1.41	1.434		
1.354				1.32	1 2.146	2.74	2.074	2.32	
1.014				1.05	1.16	1.529	1.423		
1,005					7 1.12	1.38	1.340		
0.947					1.183	1.40	3 1.529		
0.955					3 1.189	1.46	3 1.474		
0.550	1.465			+	5 1.11	1.42	1 1.36		
1.032					4 1.08	7 1.14	1.3	8 2.2	6 133

				ot Num	Scanner	Fluidics	Fluid Sta	Fluid Pos
log(intens)/ log(B		Spikeln R-Squa						Not Available
Not Available		Not Available			Not Available	11011111111		Not Available
Not Available		Not Available			Not Available	1101711-11	1101111111	Not Available
Not Available		Not Available		Not Available	Not Available	Not Available	11017110010	Not Available
Not Available		Not Available			Not Available	Not Available	Not Available	Not Available
Not Available		Not Available			Not Available	Not Available		Not Available
Not Available		Not Available		Not Available	Not Available	Not Available		Not Available
Not Available		Not Available	_	Not Available	Not Available	Not Available	Not Avaliable	Not Available
Not Available		Not Available		Not Avallable	Not Available	Not Available	Not Available	Not Available
Not Available		Not Available		Not Available	Not Available	Not Available	Not Available	
Not Available		Not Available		Not Available				
Not Available		Not Available		Not Available				
Not Available		Not Available		Not Available				
Not Available		Not Available		Not Available				
Not Available		Not Available		Not Available				
Not Available		Not Available		Not Available				
	1.476		0.968	2001343	scanner13	fluidics03		
	1.383		0.973	2001343	scanner02	fluidics03		1 3
	1.423		0.976		scanner09	fluidics03		3 2
	1.44		0.972		scanner14	fluidics03		1 1
` 	1.398		0.965		scanner01	fluidics03		1 4
	1.448		0.971		scanner02	fluidics03		2 2
	1.429		0.965		3 scanner15	fluidics04		3 1
	1.468		0.976		Scanner15	fluidics03		8 3
	1.549		0.971		6scanner04	fluidics04		1 3
	1.443		0.962		6 scanner05	fluidlcs04		41
	1.451		0.96		6 scanner14	fluidics04		2
	1.486		0.976		6scanner15	fluidics03		6
-	1.472		0.97		6 scanner15	fluidics03		7
 	1.49		0.97		6scanner02	fluidics03		8
	1.26		0.92		6 scanner05	fluidics03		5
<u> </u>	1.20	<u>u</u>	0.52	200072	<u> </u>			

PCT/US2003/024160

00000010 0000000 0000000 00100000 00000010 1000000 0000000 00100000 00000000		
00000010 10000000 0000000 00100000 00000010 00000000	IP Fall Flags	
00000010 0000000 0000000 00100000 00100000 0000000 00000000	00000010 00000000 00000000 00100000	
00000000 0000000 0000000 00100000 00100000 0000000 0000000 00000000	00000010 10000000 00000000 00100000	
00000000 0000000 0000000 00100000 00000000	00000010 00000000 00000000 00100000	
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0000000 0000000 0000000 0000000 0000000	0000000 0000000 0000000 00000000	
0000000 0000000 0000000 01100000 0000000 0100100 0000000 00000000	00000000 00000000 00000000 00000000	
00000000 0000000 0000000 00000000 000000	00000000 00000000 00000000 00000000	
00000000 01000100 0000000 00000000 00000000	00000000 00000000 00000000 01100000	
0000000 000010 000000 0000000 0000011 1010111 0000000 01000100	00000000 00000000 00000000 00000000	
00000111 10101111 0000000 01000100 00000010 0000000 0000000 00100000 00000000	00000000 01000100 00000000 00000000	
00000010 0000000 0000000 00100000 00000000		
00000000 0000000 0000000 00100000 00000000		
00000000 01000100 00000000 00000000 00000010 0000000 00000000		
00000010 0000000 0000000 00000000 00000000		
0000000 0000000 0000000 00000000		
0000000 0000000 0000000 00100000		
	00000000 00000000 00000000 00100000	

Fields	DESCRIPTION
ID .	Sequence (Primary Kev)
CHIPID .	Not used
EXPERIMENTNA	Link to chip table
PROCESSID	From CV_PROCESS
PERSON	User or Application
DATETIME	Timestamp
HISTORY	CURRENT or HISTORY
PROBLEMID	From CV PROBLEM (>0 if
FILENAME	Filename from Analysis or

FIG. 5

<u>ID</u>	DESCRIPTI	ID DESCRIPTION
ANALYSIS	Analysis	0 ok .
VALIDATE	Validate	1 DAT file not found after scan
IMAGEPRO	Image	2 CEL file not found after scan
VQC	Visual QC	3 DAT file created without DB entry
MASK	Mask	4 CHP file is not found
VALIDCHP	Validate	5 CEL file has been modified or
IMPORT	Import	6 Analyzed with incorrect parameters
PUBLISH	Publish	7 Analyzed without visual QC
ARCHIVE	Archive	8 CEL file created without DB entry
		9 CHP file created without DB entry
FIG. 6		10 CEL file is older than DAT file
		11 CHP file is older than CEL file
		12 Failed Visual QC
		13 Failed Image Processing

Fields	DESCRIPTION
CHIPID	IPK
EXPERIMENTNAM	
PERSON	QCUser
PROBEARRAYTY	!From Affy
COMMENTS	•
QCDATE	Timestamp
LOTNUMBER	iFrom Affv
PASSFAIL	Set by vgc user
DATESTAMP	Current date
FAILREASON	Reason chip failed QC - (no longer same as defect reason)
NEEDSMASK	Flag indicating image needs to be masked (set by vgc user from QC
MASKED	Flag indicating has been masked ('Y') or not (blank) Set from Qualms
	the same of the sa
IP FAILFLAGS	25 flag bits. 1=corresponding metric is out of range (failed)
IP FAILDESCRIPT	Description of defects implied by failed metrics
IP LIMITSVER	Version number of limits used to compute IP FAILFLAGS
	· · · · · · · · · · · · · · · · · · ·
32 IP Metric	IP_INTENSALL, IP_INTENSSPIKE*, IP_INTENSOLIGOB2*,
columns -	IP_OUTLIERS, IP_SATUR, IP_SPIKEINR2, IP_VERT10,
	IP_SPIKEINICPT*, IP_SPIKEINSLOPE*, IP_NEGATIVEPP,
	IP_VERTOUTVAR, IP_HOROUTVAR, IP_TOPOUTEDGE,
	IP_BOTTOMOUTEDGE, IP_LEFTOUTEDGE, IP_RIGHTOUTEDGE,
	IP_TOPEDGE25, IP_BOTTOMEDGE25, IP_LEFTEDGE25,
	IP_RIGHTEDGE25, IP_TOPEDGE75, IP_BOTTOMEDGE75,
	IP_LEFTEDGE75, IP_RIGHTEDGE75, IP_HOR25MINMAX,
	IP_VERT25MINMAX, IP_HOR75MINMAX, IP_VERT75MINMAX,
	IP_INTENSE5TH, IP_53GAPDH*, IP_53BACTIN*, IP_MEANAVDIFF*
	*= no limits for these metrics
	- IIO IIIIII IOI diese medios

Fields	DESCRIPTION
	:Seguence (Primary Key)
	For historic reasons - no longer used
CLASS	Defect type
IMAGE	Not used
	FK. Link to ChipDefects PK
QUADRANT	Not used
DEFECTDESCRIPTI	New Description, linked to CV FAILREASON
	i and the second

FIG. 9

Fields	DESCRIPTION
DEFECTIO	Sequence (Primary Kev)
SHAPE	0=rectangle. 1-ellipse
IMAGE LEFT	Defect location in image coordinates
IMAGE RIGHT	
IMAGE TOP	
IMAGE BOTTOM	
GRID LEFT	Defect location in cel file (grid) coordinates
GRID RIGHT	
GRID TOP	
GRID BOTTOM	

PCT/US2003/024160

REASON

Bright Locally

Bright Overall

Cracked

Crop Circle

Dim Locally

Dim Overall

Haze Band

Haze

High Background

Incorrect Probearray

Incorrect Scanner Setting

No Sample

Other

Scanner Failure

Snow

Snow

FIG. 11

Column	Table	DESCRIPTION
LOT RUN ID	AFFX PHYSICAL AR	Lot Number
PROBE ARRAY NA	AFFX PHYSICAL AR	Chip Type - used to update ProbeArrayType in Chip
EXP COMMENT	AFFX ARRAY EXPER	Scanner setting (High/Low)
PROJECT NAME	AFFX SAMPLE	Project name
SCANDATE	CHIP HYB SCAN INF	Scan Date
SCANNER	CHIP HYB SCAN INF	Scanner Name
FLUIDICS	CHIP HYB SCAN INF	Fluidics Name
STATION	CHIP HYB SCAN INF	Fluidics Station
POSITION	CHIP HYB SCAN INF	Fluidics Position

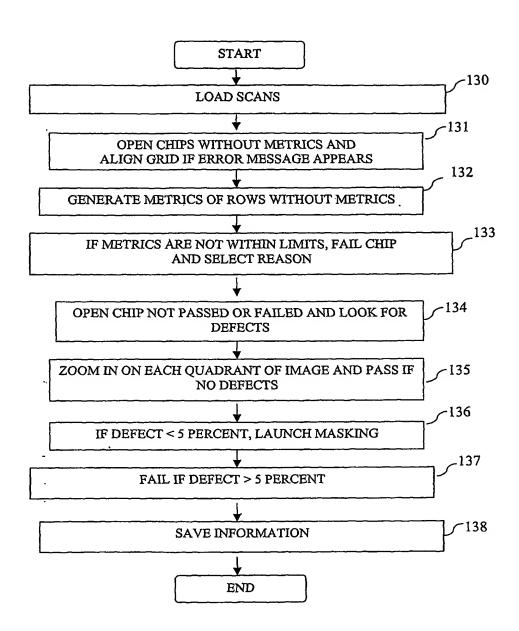


FIG. 13

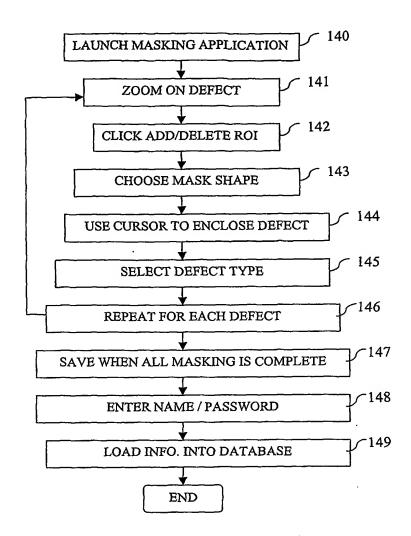


FIG. 14